**Penobscot SSN Data Package**

1. ***SSN Object w Attributes***

AverageAugDischargefromMillerOutput.py: Python script that extracts average August discharge from Miller et al. 2018 datasets (in zipped folder)

addSSNValuesfromNHDPVAAtables.py: Python script that extracts values from NHDPlusHR VAA tables

Penobscot\_SSN\_edges.pdf – metadata for edges (cleaned up network flowlines) in LSN geodatabase

Penobscot\_SSN\_predictionpoints.pdf– metadata for prediction points in LSN object

Penobscot\_SSN\_observationsite.pdf- metadata for temperature observation points in LSN object

Penobscot\_lsn\_052124.zip – zipped LSN object (geodatabase)

Miller\_etal\_2018\_data\_manipulation\_protocol.zip includes Miller\_etal\_data\_organization\_script.R, input and output folders

accumulate\_outsideofESRI.py – Python script that accumulates values upstream from downstream catchment. To calculate an average value upstream you must accumulate a weighted average (e.g., RCA catchment area- weighted value), accumulate the weight (e.g. RCA catchment area), then divide the first accumulated product by the second.

DataDictionary.xlsx – Simplified data dictionary for variables in edges, observation points and prediction points